

Irene Margiolaki

List of Publications by Year in descending order

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45
papers

1,420
citations

471509

17
h-index

330143

37
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46
all docs

46
docs citations

46
times ranked

2064
citing authors

#	ARTICLE	IF	CITATIONS
1	[Al ₄ (OH) ₂ (OCH ₃) ₄ (H ₂ N ₆) ₃]·xH ₂ O A 12-Connected Porous Metal-Organic Framework with an Unprecedented Aluminum-Containing Brick. <i>Angewandte Chemie - International Edition</i> , 2009, 48, 5163-5166.	13.8	260
2	Structural Transformations and Adsorption of Fuel-Related Gases of a Structurally Responsive Nickel Phosphonate Metal-Organic Framework, Ni-STA-12. <i>Journal of the American Chemical Society</i> , 2008, 130, 15967-15981.	13.7	175
3	Evidence for photochemical production of reactive oxygen species in desert soils. <i>Nature Communications</i> , 2015, 6, 7100.	12.8	103
4	MIL-100(V) – A mesoporous vanadium metal organic framework with accessible metal sites. <i>Microporous and Mesoporous Materials</i> , 2012, 157, 18-23.	4.4	94
5	Structural Transitions and Flexibility during Dehydration/Rehydration Process in the MOF-type Aluminum Pyromellitate Al ₂ (OH) ₂ [C ₁₀ O ₈ H ₂] (MIL-118). <i>Crystal Growth and Design</i> , 2009, 9, 2927-2936.	3.0	87
6	Synthesis, Structure, and Catalytic Performance in Cyclooctene Epoxidation of a Molybdenum Oxide/Bipyridine Hybrid Material: {[MoO ₃ (bipy)][MoO ₃ (H ₂ O)]} _n . <i>Inorganic Chemistry</i> , 2010, 49, 6865-6873.	4.0	57
7	⁷¹ Ga Slow-CTMAS NMR and Crystal Structures of MOF-Type Gallium Carboxylates with Infinite Edge-Sharing Octahedra Chains (MIL-120 and MIL-124). <i>Chemistry of Materials</i> , 2011, 23, 39-47.	6.7	53
8	Second SH3 Domain of Ponsin Solved from Powder Diffraction. <i>Journal of the American Chemical Society</i> , 2007, 129, 11865-11871.	13.7	42
9	High-throughput phase-diagram mapping via powder diffraction: a case study of HEWL versus pH. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005, 61, 1612-1625.	2.5	31
10	Ionic conductivity in the Mg intercalated fullerene polymer Mg ₂ C ₆₀ . <i>Carbon</i> , 2013, 51, 143-147.	10.3	31
11	Combined neutron and X-ray diffraction determination of disorder in doped zirconolite-2M. <i>American Mineralogist</i> , 2012, 97, 291-298.	1.9	28
12	Synchrotron X-ray powder diffraction study of hexagonal turkey egg-white lysozyme. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2005, 61, 423-432.	2.5	27
13	Polymorphism of microcrystalline urate oxidase from <i>Aspergillus flavus</i> . <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010, 66, 539-548.	2.5	23
14	Magnetic Structure of the Europium Fulleride Ferromagnet Eu ₆ C ₆₀ . <i>Journal of the American Chemical Society</i> , 2002, 124, 11288-11289.	13.7	22
15	Structural studies of human insulin cocrystallized with phenol or resorcinol via powder diffraction. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2012, 68, 1632-1641.	2.5	22
16	High-resolution powder X-ray data reveal the T ₆ hexameric form of bovine insulin. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2013, 69, 978-990.	2.5	20
17	Dynamic versus Static Character of the Magnetic Jahn-Teller Effect: Magnetostructural Studies of [Fe ₃ O(O ₂ CPh) ₆ (py) ₃]ClO ₄ ·py. <i>Inorganic Chemistry</i> , 2017, 56, 762-772.	4.0	19
18	Rapid screening of in cellulose grown protein crystals via a small-angle X-ray scattering/X-ray powder diffraction synergistic approach. <i>Journal of Applied Crystallography</i> , 2020, 53, 1169-1180.	4.5	17

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19	Phase transition induced by solid solution: The BCa-BMg substitution in richteritic amphiboles. <i>American Mineralogist</i> , 2010, 95, 369-381.	1.9	16
20	In Quest for Improved Drugs against Diabetes: The Added Value of X-ray Powder Diffraction Methods. <i>Biomolecules</i> , 2017, 7, 63.	4.0	16
21	Alkylamino-terephthalate ligands stabilize 8-connected Zr ⁴⁺ MOFs with highly efficient sorption for toxic Se species. <i>Journal of Materials Chemistry A</i> , 2021, 9, 3379-3387.	10.3	16
22	Applications of X-ray Powder Diffraction in Protein Crystallography and Drug Screening. <i>Crystals</i> , 2020, 10, 54.	2.2	15
23	Macromolecular Powder Diffraction: Ready for genuine biological problems. <i>Protein and Peptide Letters</i> , 2016, 23, 232-241.	0.9	15
24	NMR study of non-structural proteinsâ€™ part I: ¹ H, ¹³ C, ¹⁵ N backbone and side-chain resonance assignment of macro domain from Mayaro virus (MAYV). <i>Biomolecular NMR Assignments</i> , 2015, 9, 191-195.	0.8	14
25	Brothers in Arms: Structure, Assembly and Function of Arenaviridae Nucleoprotein. <i>Viruses</i> , 2020, 12, 772.	3.3	14
26	The thermal behavior of richterite. <i>American Mineralogist</i> , 2008, 93, 1659-1665.	1.9	13
27	Molecular envelopes derived from protein powder diffraction data. <i>Journal of Applied Crystallography</i> , 2008, 41, 329-339.	4.5	12
28	Successful protein cryocooling for powder diffraction. <i>Journal of Applied Crystallography</i> , 2007, 40, 121-124.	4.5	11
29	Time-dependent analysis of K ₂ PtBr ₆ binding to lysozyme studied by protein powder and single crystal X-ray analysis. <i>Zeitschrift für Kristallographie</i> , 2010, 225, 570-575.	1.1	11
30	Coxsackievirus B3 protease 3C: expression, purification, crystallization and preliminary structural insights. <i>Acta Crystallographica Section F, Structural Biology Communications</i> , 2016, 72, 877-884.	0.8	11
31	Features of the secondary structure of a protein molecule from powder diffraction data. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010, 66, 756-761.	2.5	10
32	<i>In situ</i> detection of a novel lysozyme monoclinic crystal form upon controlled relative humidity variation. <i>Journal of Applied Crystallography</i> , 2018, 51, 1671-1683.	4.5	10
33	Preliminary insights into the non structural protein 3 macro domain of the Mayaro virus by powder diffraction. <i>Zeitschrift für Kristallographie</i> , 2010, 225, .	1.1	8
34	Dengue virus 3 NS5 methyltransferase domain: expression, purification, crystallization and first structural data from microcrystalline specimens. <i>Zeitschrift Fur Kristallographie - Crystalline Materials</i> , 2018, 233, 309-316.	0.8	8
35	Revisiting the structure of a synthetic somatostatin analogue for peptide drug design. <i>Acta Crystallographica Section B: Structural Science, Crystal Engineering and Materials</i> , 2019, 75, 611-620.	1.1	8
36	Rietveld Refinement for Macromolecular Powder Diffraction. <i>Crystal Growth and Design</i> , 2020, 20, 8101-8123.	3.0	7

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37	Unit-cell response of tetragonal hen egg white lysozyme upon controlled relative humidity variation. <i>Journal of Applied Crystallography</i> , 2019, 52, 816-827.	4.5	6
38	New perspectives in macromolecular powder diffraction using single-photon-counting strip detectors: high-resolution structure of the pharmaceutical peptide octreotide. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2021, 77, 186-195.	0.1	6
39	Insulin polymorphism induced by two polyphenols: new crystal forms and advances in macromolecular powder diffraction. <i>Acta Crystallographica Section D: Structural Biology</i> , 2020, 76, 1065-1079.	2.3	5
40	Tetragonal-antiprismatic coordination of transition metals in intermetallic compounds: $\text{Mn}_6\text{Ga}_2\text{9}$ and its structural relationships. <i>Journal of Solid State Chemistry</i> , 2013, 199, 141-148.	2.9	4
41	Solid solution along the synthetic $\text{LiAlSi}_2\text{O}_6$ - $\text{LiFeSi}_2\text{O}_6$ (spodumene-ferri-spodumene) join: A general picture of solid solutions, bond lengths, lattice strains, steric effects, symmetries, and chemical compositions of Li clinopyroxenes. <i>American Mineralogist</i> , 2016, 101, 2498-2513.	1.9	4
42	Solving centrosymmetrical zeolites from powder diffraction data by combining the direct-methods origin-free modulus sum function with the isomorphous replacement technique. <i>X. Journal of Applied Crystallography</i> , 2005, 38, 906-911.	4.5	2
43	Exploring the complex map of insulin polymorphism: a novel crystalline form in the presence of <i>m</i> -cresol. <i>Acta Crystallographica Section D: Structural Biology</i> , 2020, 76, 366-374.	2.3	2
44	High-throughput macromolecular polymorph screening via an NMR and X-ray powder diffraction synergistic approach: the case of human insulin co-crystallized with resorcinol derivatives. <i>Journal of Applied Crystallography</i> , 2021, 54, 963-975.	4.5	1
45	Successful cryocooling of protein microcrystalline samples for powder diffraction. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2009, 65, s320-s321.	0.3	1